

STATEMENT OF WORK

TITLE: Support for Task Force on Hemispheric Transport of Air Pollution
CONTRACTOR: SC&A, Inc.
CONTRACT: EP-D-14-033
WA#: 3-03
DURATION: October 1, 2017 – September 30, 2018

WORK ASSIGNMENT MANAGER:

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SUMMARY:

The purpose of this Work Assignment is to provide logistical support to the U.S. Environmental Protection Agency (EPA) efforts to improve the understanding of the long-range transport of air pollution and its impacts on implementation of the National Ambient Air Quality Standards (NAAQS) and other environmental objectives. In particular, this Work Assignment provides logistical and analytical support for the Task Force on Hemispheric Transport of Air Pollution (TF HTAP) organized under the Convention on Long-Range Transboundary Air Pollution (LRTAP Convention). TF HTAP is co-chaired by EPA staff.

Under this Work Assignment, the contractor will be responsible for

- maintaining a website providing information about the TF HTAP and its activities
- continuing development of a screening model and user interface for exploration of the TF HTAP modeling results

BACKGROUND:

The EPA is responsible for the review, development, promulgation and implementation of the National Ambient Air Quality Standards (NAAQS). Although domestic sources are the primary contributors to nonattainment of the NAAQS, the United States is both a source and a receptor for the international transport of air pollutants. Pollutants not only flow across our borders with Canada and Mexico, but also travel great distances between North America and Asia, Africa, Europe, and other parts of world. To help States implement and attain the NAAQS, EPA needs to understand these international influences and how they are changing over time. One forum that EPA has used to improve our understanding of these issues is the TF HTAP.

The TF HTAP is charged with organizing international cooperative research and analysis to improve the understanding of the intercontinental transport of air pollutants across the Northern

Hemisphere. The TF HTAP is co-chaired by EPA on behalf of the United States and the European Commission on behalf of the European Union. The TF HTAP has developed a multi-year work plan encompassing a range of analytical work addressing emissions inventories and projections; source/receptor and source apportionment analyses; model/observation and process evaluation; impacts on health, ecosystem, and climate; impacts of climate change on pollution; and a distributed data network and analysis tools. Under this Work Assignment, the contractor will provide logistical and analytical support to the U.S. co-chair of TF HTAP as they seek to implement this work plan.

This Work Assignment follows on work completed by the contractor under previous work assignments under this contract (WA 2-03). However, the work described here does not duplicate work conducted under any previous work assignment or contract.

REQUIREMENTS:

Task 1: Work Plan Development and Progress Reports

The contractor shall prepare a Work Plan for completing the requirements of this Work Assignment. The Work Plan will describe the tasks; identify a schedule for deliverables, staffing, level of effort, and costs; and present conflict of interest certification. The contractor shall submit the Work Plan to the Work Assignment Manager (WAM) within 15 business days of receipt of the Work Assignment.

The contractor shall submit monthly progress reports to the WAM, describing the work that has been accomplished, labor usage and costs incurred to date, and projected labor usage and costs at project completion. The reports shall describe any difficulties encountered in completing the work and identify remedial actions taken during the reporting period. The contractor shall submit the progress report as specified in the contract.

The Contractor shall submit progress reports and work products in electronic format (i.e., PDF).

Task 2: Maintenance of HTAP Website

Under previous work assignments, the contractor established a public website to provide a mechanism for participants to register for TF HTAP meetings and to distribute substantive and logistical information to those participants (<http://www.htap.org/>). Under this work assignment, the contractor shall maintain this website and shall modify its content based on written technical directives from the WAM to

- disseminate information about TF HTAP activities to the public and TF HTAP participants
- facilitate participant registration for meetings or workshops organized by the TF HTAP during the project period, as needed.

Task 3: Development of the FASST-HTAP Screening and Visualization Tool

Under the previous work assignment, the contractor began modification and development of the Fast Air pollution Scenario Screening Tool (FASST), originally developed by the European

Commission Joint Research Center. The FASST tool consists of a web-based user interface and an underlying model and input database. The tool was originally developed around source-receptor relationships derived with the TM5 atmospheric chemistry model. The goal of this task is to develop a version of the web-based tool that uses the source-receptor relationships based on the HTAP2 experiment ensemble and emissions scenarios based on the HTAPv2 and ECLIPSEv5a emissions scenarios.

Under the previous work assignment, the contractor got the TM5 version of FASST running on a new server, began exploring modifications to accept other source-receptor relationships, and began processing the HTAP2 experiment results to put them into the modified tool. At the end of the last period of performance, the contractor completed a plan for the modifications for review by the WAM.

With technical direction from the WAM, the contractor will complete the processing of HTAP2 model outputs and the modification of FASST. At the completion of the period of performance, the contractor shall demonstrate the capability of the web-based interface to simulate scenarios based on the HTAP2 results and make the FASST tool publicly available.

SCHEDULE & DELIVERABLES:

The schedule and deliverables for each of the tasks are identified in the Requirements section above.